

ORAL CONFERENCE PRESENTATIONS AUTHORED BY APPLIED METEOROLOGY UNIT TEAM MEMBERS AS OF FEBRUARY 2006
(AMU AUTHORS IN BOLD FONT)

<i>Author(s)</i>	<i>Title of Article</i>	<i>Title of Conference</i>	<i>Date(s) of Conference</i>	<i>Conference Location</i>
Lambert, Winifred , David Sharp, Scott Spratt, and Matthew Volkmer	Using Cloud-to-Ground Lightning Climatologies to Initialize Gridded Lightning Threat Forecasts for East Central Florida	2nd Conference on Meteorological Applications of Lightning Data	30 Jan – 2 Feb 2006	Atlanta, GA
Krider, Phillip, Hugh Christian, James Dye, Harry Koons, John Madura, Francis Merceret , David Rust, Richard Walterscheid, and John Willet	Natural and Triggered Lightning Launch Commit Criteria	12th Conference on Aviation, Range, and Aerospace Meteorology	30 Jan – 2 Feb 2006	Atlanta, GA
Dye, James, Monte Bateman, Douglas Mach, Hugh Christian, Cedric Grainger, Harry Koons, Phillip Krider, Francis Merceret , and John Willet	The Scientific Basis for a Radar-Based Lightning Launch Commit Criterion for Anvil Clouds	12th Conference on Aviation, Range, and Aerospace Meteorology	30 Jan – 2 Feb 2006	Atlanta, GA
Merceret, Francis , Michael McAleenan, Todd McNamara, Johnny Weems, and William Roeder	Implementing the VAHRR Launch Commit Criterion	12th Conference on Aviation, Range, and Aerospace Meteorology	30 Jan – 2 Feb 2006	Atlanta, GA
Bauman, William, Mark Wheeler , and David Short	Development of a Severe Weather Forecast Decision Aid for East-Central Florida	National Weather Association 30th Annual Meeting	17 – 20 Oct 2005	St. Louis, MO
Lambert, Winifred, Mark Wheeler , and William Roeder	Forecasting Lightning at Kennedy Space Center/Cape Canaveral Air Force Station	National Weather Association 30th Annual Meeting	17 – 20 Oct 2005	St. Louis, MO
Dreher, Joseph, John Manobianco, Randolph Evans, and Jonathan Case	Assessing the Forecast Impacts of Simulated GEMS Observations	Ninth Symposium on Integrated Observing and Assimilation Systems for the Atmosphere, Oceans, and Land Surface	9 – 13 Jan 2005	San Diego, CA
Lambert, Winifred, Mark Wheeler , and William Roeder	Objective Lightning Forecasting at Kennedy Space Center and Cape Canaveral Air Force Station using Cloud-to-Ground Lightning Surveillance System Data	Conference on Meteorological Applications of Lightning Data	9 – 13 Jan 2005	San Diego, CA

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Bateman, Monte, Douglas Mach, Sharon Lewis, James Dye, Erik Defer, Cedric Grainger, Paul Willis, Hugh Christian, and Francis Merceret	Comparison of in-situ Electric Field and Radar Derived Parameters for Stratiform Clouds in Central Florida	Conference on Meteorological Applications of Lightning Data	9 – 13 Jan 2005	San Diego, CA
Bauman, William , William Roeder, Richard Lafosse, David Sharp, and Francis Merceret	The Applied Meteorology Unit – Operational Contributions to Spaceport Canaveral	11th Conference on Aviation, Range, and Aerospace Meteorology	4 – 8 Oct 2004	Hyannis, MA
Short, David , Robert Lane, Katherine Winters, and John Madura	Effects of Clouds on Optical Imaging of the Space Shuttle During the Ascent Phase: A Statistical Analysis Based on a 3D Model	11th Conference on Aviation, Range, and Aerospace Meteorology	4 – 8 Oct 2004	Hyannis, MA
Evans, Randolph, John Manobianco, Jonathan Case , and Joseph Dreher	GEMS: An Airborne System for Urban Environmental Monitoring	Fifth Conference on Urban Environment	23 – 26 Aug 2004	Vancouver, BC
Rao, Gandikota, Krishnaraj Santhanam, Joshua Scheck, Scott Spratt, Bartlett Hagemeyer, Roger Edwards, Joseph Schaefer, Jonathan Case , Eric Kemp	MM5 Simulations of Precipitation and Mesocyclone Dynamics Associated with TC Gabrielle (2001) using High Resolution Data of East Central Florida	26th Conference on Hurricanes and Tropical Meteorology	3 – 7 May 2004	Miami, FL
Merceret, Francis, William Bauman , William Roeder, Richard Lafosse, and David Sharp	A Decade of Weather Technology Delivered to America's Space Program by the Applied Meteorology Unit	41st Space Congress	27 – 30 Apr 2004	Cape Canaveral, FL
Smith, Brian and Francis Merceret	A stochastic Model of Wind Velocities at the Kennedy Space Center	110th Annual Meeting of the American Mathematical Society	7 – 10 Jan 2004	Phoenix, AZ
Bateman, Monte, Douglas Mach, Sharon Lewis, James Dye, Erik Defer, Cedric Grainger, Paul Willis, Hugh Christian, and Francis Merceret	Comparison of in-situ Electric Field and Radar Derived Parameters for Stratiform Clouds in Central Florida	Fall Meeting of the American Geophysical Union	8 – 12 Dec 2003	San Francisco, CA

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Wheeler, Mark, and David Short	Forecasting the Propagation of Thunderstorm anvil clouds over Florida using NCEP model data	National Weather Association 28th Annual Meeting	18 – 23 Oct 2003	Jacksonville, FL
Sharp, David, Peter Blottman, Scott Spratt, Matthew Volkmer, Bartlett Hagemeyer, and Jonathan Case	The NWS Southern Region Modeling Initiative at NWS Forecast Office Melbourne, FL	National Weather Association 28th Annual Meeting	18 – 23 Oct 2003	Jacksonville, FL
Case, Jonathan , Peter Blottman, Scott Spratt, David Sharp, and Matthew Volkmer	High-Resolution Model Simulations of Tornadoic Storms over Florida during Tropical Storm Gabrielle (2001)	National Weather Association 28th Annual Meeting	18 – 23 Oct 2003	Jacksonville, FL
Merceret, Francis, and John Manobianco	The Applied Meteorology Unit as a Model for Successfully Transitioning Research to Operations	National Weather Association 28th Annual Meeting 57th Interdepartmental Hurricane Conference	18 – 23 Oct 2003 10 – 14 Mar 2003	Jacksonville, FL Miami, FL
Short, David and Winifred Lambert	Shallow Rain from the TRMM PR: A Five-Year Climatology	31st Conference on Radar Meteorology	6 – 12 Aug 2003	Seattle, WA
Dye, James, John Willet, William Hall, Erik Defer, Sharon Lewis, Douglas Mach, Monte Bateman, Hugh Christian, Cedric Grainger, Paul Willis, and Francis Merceret	The Decay of Electric Fields in Anvils: Observations and Comparison with Model Calculations	International Conference on Atmospheric Electricity	9 – 13 Jun 2003	Versaille, France
Manobianco, John, Jonathan Case , Randolph Evans, David Short , and Kristofer Pister	Global Environmental MEMS Sensors (GEMS): A Revolutionary Observing System for the 21st Century	7th Symposium on Integrated Observing Systems: The Water Cycle	10 – 13 Feb 2003	Long Beach, CA
Dye, James, William Hall, Sharon Lewis, Erik Defer, G. Dix, John Willet, Cedric Grainger, Paul Willis, Monte Bateman, Douglas Mach, Hugh Christian, and Francis Merceret	Microphysical Properties and the Decay of Electric Fields in Florida Anvils	Fall Meeting of the American Geophysical Union	6 – 10 Dec 2002	San Francisco, CA

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Case, Jonathan, John Manobianco, and David Short	Characteristics of the Nocturnal Land Breeze over the Kennedy Space Center, Florida	19th Conference on Weather Analysis and Forecasting/15th Conference on Numerical Weather Prediction	12 – 16 Aug 2002	San Antonio, TX
Kasparis, Takis, Linwood Jones, Kartik Ramakrishnan, William Roeder, Francis Merceret , and Ed Brandes	Forecasting the Onset of Lightning Activity with Polarimetric Radar Data	NASA TRMM Science Conference	22 – 26 Jul 2002	Honolulu, HI
Lane, John, Takis Kasparis, Linwood Jones, and Francis Merceret	Estimating a 3-D Drop Size Distribution and Examining Sensitivities to Vertical Air Motion	NASA TRMM Science Conference	22 – 26 Jul 2002	Honolulu, HI
Roeder, William, Francis Merceret , Billie Boyd, Frank Brody, and Dewey Harms	Advanced Weather Projects to Improve Space Launch from the Eastern Range and Kennedy Space Center	10th Conference on Aviation, Range, and Aerospace Meteorology	13 – 16 May 2002	Portland, OR
Ahammad, Parvez, Christoffer Williams, Takis Kasparis, John Lane, Francis Merceret , and Linwood Jones	Estimating Effects and Significance of Vertical Velocity in Precipitation Measurements using Disdrometer Flux Conservation Model	SPIE 4729 Aerosense	1 – 5 Apr 2002	Orlando, FL
Short, David , James Sardonina, Winifred Lambert , and Mark Wheeler	Propagation and Lifetime Characteristics of Thunderstorm Anvil Clouds over Florida	18th International Conference on Interactive Information and Processing Systems	13 – 18 Jan 2002	Orlando, FL
Dye, James., Erik Defer, Wiebke Deierling, Cedric Grainger, Monte Bateman, Douglas Mach, Hugh Christian, Paul Willis, and Francis Merceret	Observations of the decay of anvils over Kennedy Space Center	EOS Trans. American Geophysical Union	10 – 14 Dec 2001	San Francisco, CA
Case, Jonathan, and David Short	Modeling and Validating the Daily Onset of the Florida East Coast Sea Breeze over the Kennedy Space Center	4th Conference on Coastal Atmospheric and Oceanic Prediction and Processes	6 – 9 Nov 2001	St. Petersburg, FL
Lambert, Winifred , Timothy Oram, and Richard Lafosse	Observations-based Guidance for Short-term Cloud Ceiling Forecasts at Kennedy Space Center: Development and Implementation	National Weather Association 26th Annual Meeting	13 – 19 Oct 2001	Spokane, WA

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Case, Jonathan , Timothy Oram, Tim Garner, Peter Blottman, and Scott Spratt	A Real-Time Configuration of the ARPS Data Analysis System to Support Operational Forecasting in East-Central Florida	National Weather Association 26th Annual Meeting	13 – 19 Oct 2001	Spokane, WA
Evans, Randolph, and Jonathan Case	Delta II Explosion Plume Analysis at Cape Canaveral, FL: Evaluation of Meteorological and Dispersion Modeling System	Air and Waste Management Association 94th Annual Conference and Exhibition	24 – 28 Jun 2001	Orlando, FL
Manobianco, John, and David Short	On the Utility of airborne MEMS for improving Meteorological Analysis and Forecasting	4th International Conference on Modeling and Simulation of Microsystems	19 -21 Mar 2001	Hilton Head, SC
Case, Jonathan, John Manobianco , Yuanfu Xie, Randolph Ware, and Teresa Van Hove	Impact of GPS-Based Water Vapor Fields on Mesoscale Model Forecasts	5th Symposium on Integrated Observing Systems	14 – 19 Jan 2001	Albuquerque, NM
Dye, James, Erik Defer, J. Hagen, William Hall, Cedric Grainger, Mike Poellot, M. Brown, Hugh Christian, Monte Bateman, Douglas Mach, Mike Stewart, Paul Willis and Francis Merceret	Electric Field and Associated Microphysical Measurements in the Anvil of a Florida Thunderstorm	Fall Meeting of the American Geophysical Union	16 Dec 2000	San Francisco, CA
Case, Jonathan, John Manobianco , Allan Dianic, Dewey Harms, and Paul Rosati	An Evaluation of RAMS in the Eastern Range Dispersion Assessment System during the 1999-2000 Florida cool season	National Weather Association 25th Annual Meeting	14 – 20 Oct 2000	Gaithersburg, MD
Merceret, Francis , and Hugh Christian	KSC AFBM 2000 – A Field Program to Facilitate Safe Relaxation of the Lightning Launch Commit Criteria for America's Space Program	9th Conference on Aviation, Range and Aerospace Meteorology	11 – 15 Sep 2000	Orlando, FL
Short, David , Michael Gremillion, Clark Pinder, and William Roeder	Volume Scan Strategies for the WSR-74C in Support of Space Launch	9th Conference on Aviation, Range and Aerospace Meteorology	11 – 15 Sep 2000	Orlando, FL
Case, Jonathan, John Manobianco , Allan Dianic, Dewey Harms, and Paul Rosati	A Sensitivity and Benchmark Study of RAMS in the Eastern Range Dispersion Assessment System	9th Conference on Aviation, Range and Aerospace Meteorology	11 – 15 Sep 2000	Orlando, FL

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Fitzpatrick, Mike, Robin Schumann, Winifred Lambert, Francis Merceret , Gregory Wilke, and J. David Chapman	Operational Control of 50-MHz DRWP Wind Profiles for Space-Lift Support	9th Conference on Aviation, Range and Aerospace Meteorology	11 – 15 Sep 2000	Orlando, FL
Lane, John, Francis Merceret , Takis Kasparis, Dev Roy, B. Muller, and Linwood Jones	Radar volume and reflectivity using an array of ground based rainfall drop size detectors	SPIE Conference 4062, Signal Processing, Sensor Fusion, and Target Recognition IX	Aug 2000	Orlando, FL
Case, Jonathan, Mark Wheeler, John Manobianco , Allan Dianic, Dewey Harms, and Paul Rosati	An Objective and Subjective Evaluation of RAMS in the Eastern Range Dispersion Assessment System	Joint Army-NASA-Navy-Air Force 18th Safety and Environmental Protection Subcommittee Meeting	8 – 12 May 2000	Cocoa Beach, FL
Schumann, Robin and Francis Merceret	Evaluation of the Automated Adaptive Signal Processing Technique for Doppler Radar Wind Profilers	9th Workshop on Technical and Scientific Aspects of MST Radar	13 – 17 Mar 2000	Toulouse, France
Schumann, Robin and Francis Merceret	Use of the NASA KSC 50-MHz ST Profiler for Operational Support to Spaceflight - Part I, Characterization of the Instrument	9th Workshop on Technical and Scientific Aspects of MST Radar	13 – 17 Mar 2000	Toulouse, France
Merceret, Francis and Robin Schumann	Use of the NASA KSC 50-MHz ST Profiler for Operational Support to Spaceflight - Part II, Characterization of the Atmosphere	9th Workshop on Technical and Scientific Aspects of MST Radar	13 – 17 Mar 2000	Toulouse, France
Case, Jonathan, John Manobianco, Mark Wheeler , Allan Dianic, Carlton Parks, and Dewey Harms	Evaluation of RAMS in the Eastern Range Dispersion Assessment System	11th Joint Conference on the Applications of Air Pollution Meteorology with the A&WMA	9 – 14 Jan 2000	Long Beach, CA
Case, Jonathan, John Manobianco, Mark Wheeler , Allan Dianic, Carlton Parks, and Dewey Harms	Evaluation of RAMS in the Eastern Range Dispersion Assessment System	24th Annual Meeting of the National Weather Association	15 – 22 Oct 1999	Biloxi, MS

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Roeder, William, and Mark Wheeler	An Update to an Overview of Wet Microburst Forecasting at 45 th Weather Squadron	2nd Pulse Storm Prediction Workshop	7 – 11 Dec 1999	Boulder, CO
Case, Jonathan, and John Manobianco	Local Data Integration in East Central Florida Using the ARPS Data Analysis System	8th Conference on Aviation, Range, and Aerospace Meteorology	10 – 15 Jan 1999	Dallas, TX
Harms, Dewey, Tony Guiffrida, Billie Boyd, Lawrence Gross, George Strohm, Rick Lucci, Johnny Weems, Edward Prisela, Klaus Lammers, Hal Herring, and Francis Merceret	The Many Lives of a Meteorologist in Support of Space Launch	8th Conference on Aviation, Range and Aerospace Meteorology	10 – 15 Jan 1999	Dallas TX
Lucci, Richard, Dewey Harms, Billie Boyd, and Francis Merceret	Current and Future Wind Profilers in Support of the Spacelift Mission at the Eastern Range and Kennedy Space Center	4th International Symposium on Tropospheric Profiling	21 – 25 Sep 1998	Snowmass, CO
Schumann, Robin, Winifred Lambert, Francis Merceret, and Gregory Taylor	Evaluation of Signal Processing Improvements for Radar Wind Profilers	4th International Symposium on Tropospheric Profiling	21 – 25 Sep 1998	Snowmass, CO
Roeder, William, and Mark Wheeler	An Overview of Wet Microburst Forecasting at 45 th Weather Squadron	OSF Pulse Storm Downburst Prediction (PSDP) Workshop	28 – 31 Jul 1998	Boulder, CO
Lane, John, Peggy Glitto, David Sharp, Francis Merceret , G. McFarquhar, T. Kasparis, Linwood Jones, and B. Fisher	Steps Toward Improving Radar Estimates of Convective Rainfall Using Spatial Averages Obtained from Rain Gauge Clusters	1st International Conference on Geospatial Information in Agriculture and Forestry	1 – 3 Jun 1998	Orlando, FL
Starr, S., David Sharp, Francis Merceret , John Madura, and M. Murphy	LDAR, A Three-dimensional Lightning Warning System: Its Development and Use by the Government and Transition to Public Availability	35th Space Congress	28 Apr – 1 May 1998	Cocoa Beach, FL
Lane, John, Francis Merceret , T. Kasparis, and Linwood Jones	Image Processing Techniques Applied to Rainfall Estimation from Radar Reflectivity Measurements	12th Annual International Symposium on Aerospace/Defense Sensing, Simulation, and Controls	13 – 17 Apr 1998	Orlando, FL
Tremback, Craig, Ian Baker, R. Hertenstein, and Francis Merceret	Implementation of a Soil Moisture Measurement Network for Operational Numerical Weather Forecasting Applications	10th Symposium on Meteorological Observations and Instrumentation	11 – 16 Jan 1998	Phoenix, AZ

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Nutter, Paul, and John Manobianco	Twin Season Comparison of Meso-eta Forecast Accuracy at Three Select Stations	12th Conference on Numerical Weather Prediction	11 – 16 Jan 1998	Phoenix, AZ
Manobianco, John, and Paul Nutter	A Local Data Integration System Configured for Weather Support in East Central Florida	2nd Symposium on Integrated Observing Systems	11 – 16 Jan 1998	Phoenix, AZ
Lambert, Winifred, and Gregory Taylor	Data Quality Assessment Methods for the 915 MHz Profiler Network on KSC/CCAS	10th Symposium on Meteorological Observations and Instrumentation	11 – 16 Jan 1998	Phoenix, AZ
Nutter, Paul, and John Manobianco	Evaluating the Potential Utility of the Meso-eta Model for Weather Support to the US Space Program	7th Conference on Aviation, Range and Aerospace Meteorology	2 – 7 Feb 1997	Long Beach, CA
Wheeler, Mark, and Winifred Lambert	WSR-88D Exploitation of Convection Initiation and Severe/Non-severe Development at CCAS, FL	7th Conference on Aviation, Range and Aerospace Meteorology	2 – 7 Feb 1997	Long Beach, CA
Nutter, Paul, and John Manobianco	The Utility of the 29km Eta Model as a Forecasting Tool for Warm Season Thunderstorms in Florida	21st Annual Meeting National Weather Association	1 – 6 Dec 1996	Cocoa Beach, FL
Roeder, William, Francis Merceret , Steve Sokol, Scott Heckman, and Gregory Taylor	Meteorological Operation Research Requirements on the Central Florida Atlantic Coast in Support of the United States Space Program	15th Conference on Weather Analysis and Forecasting	19 – 23 Aug 1996	Norfolk, VA
Lambert, Winifred, and Mark Wheeler	WSR-88D Case Study of Convection Initiation at Cape Canaveral Air Station, FL	15th Conference on Weather Analysis and Forecasting	19 – 23 Aug 1996	Norfolk, VA
Manobianco, John, and Paul Nutter	Evaluation of the 29 Km Eta Model for Real-Time Weather Support to Operations at Kennedy Space Center and Cape Canaveral Air Station	11th Conference on Numerical Weather Prediction	19 – 23 Aug 1996	Norfolk, VA
Evans, Randolph , and C.J. Tremback	The Implementation and Evaluation of the Emergency Response Dose Assessment System (ERDAS) at Cape Canaveral Air Station/Kennedy Space Center	9th Joint Conference on the Applications of Air Pollution Meteorology with the Air and Waste Management Association	28 Jan – 2 Feb 1996	Atlanta, GA
Merceret, Francis , Billie Boyd, Gregory Taylor , and John Ernst	Applied Meteorology Unit Support to Modernizing Weather Infrastructure at the Eastern Range	20th Annual Meeting National Weather Association	3 – 8 Dec 1995	Houston, TX
Wheeler, Mark	AMU's WSR-88D Exploitation Tasks	1995 Southeastern United States WSR-88D User's Workshop	22 – 23 Feb 1995	Patrick Air Force Base, FL

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Schumann, Robin, and Gregory Taylor	Application of 50 MHz Doppler Radar Wind Profiler to Launch Operations at Kennedy Space Center and Cape Canaveral Air Station	14th Conference on Weather Analysis and Forecasting	15 – 20 Jan 1995	Dallas, TX
Manobianco, John, and Gregory Taylor	Forecast Skill of a High-Resolution, Real-Time Mesoscale Model Designed for Weather Support of Operations at Kennedy Space Center and Cape Canaveral Air Station	14th Conference on Weather Analysis and Forecasting	15 – 20 Jan 1995	Dallas, TX
Merceret, Francis	Effect of Spatial Separation of Sensors on Crosswind Measurement Validity at the Space Shuttle Landing Facility	6th Conference on Aviation Weather Systems	15 – 20 Jan 1995	Dallas, TX
Ernst, John, and Francis Merceret	The Applied Meteorology Unit: A Tri-Agency Technology Applications Facility Supporting Spaceflight Operations	American Meteorological Society Annual Meeting	15 – 20 Jan 1995	Dallas, TX
Manobianco, John, and Gregory Taylor	Operational Real-Time Mesoscale Numerical Weather Prediction at the Kennedy Space Center	10th Conference on Numerical Weather Prediction	18 – 24 Jul 1994	Portland, OR
Merceret, Francis, and John Madura	Technology Transition -- Making the R&D Investment Pay Off	AIAA Symposium on Technology Transfer/Multi-Use Technologies	16 Mar 1994	Cocoa Beach, FL